

# **HALF YEARLY COMPLIANCE REPORT FOR GRANITE BUILDING STONE QUARRY**

**File No. 1931/EC3/2022/SEIAA, EC No.86/Q/2023 Dated 03-05-2023**

## **GRANITE BUILDING STONE QUARRY OF M/s. DECCAN ROCKS**

### **Situated At**

Re. Survey No's. 66/2,66/1,66/3-2,66/3,66/3-1,66/3-4,66/3-5,66/3-7,66/3-3,66/3-6,65/1  
Thalanad Village, Meenachil Taluk  
Kottayam District, Kerala

**April 2024 – September 2024**

### **Prepared By**

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*M/s. Deccan Rocks*

G. Satheesh, Managing Partner

Theekoy P.O,Thalanadu Meenachil Thaluk, Kottayam,686580

To,

The Director MoEF&CC,

Regional Office (South Zone), KendriyaSadan,

IV<sup>th</sup> floor, E&F Wing,17<sup>th</sup> main Road, Second

Block,Koramangala Bangalore .

Respected Sir,

**Sub:** Half Yearly Compliance Report of Granite Stone Mine Project- April 2024 –  
September 2024.

**Ref:** File No. 1931/EC/2022/SEIAA, EC No. 86/Q/2023 Dated 03/05/2023

With reference to the above, we are submitting Half Yearly Compliance report for the Granite Building Stone Quarry of ,M/s. DECCAN ROCKS , Re.Survey Nos. 66/2,66/1,66/3-2,66/3,66/3-1,66/3-4,66/3-5,66/3-7,66/3-3,66/3-6,65/1 Thalanad Village, Meenachil Taluk, Kottayam District, Kerala, contains the compliance of conditions of Environmental Clearance for the period of April 2024 – September 2024. Also enclosed here, copy of all Licenses from Statutory Bodies and Compliance Monitoring Report.

Place: Kottayam  
Date: 30/11/2024

G. Satheesh  
(Authorised Signatory)

**Copy To,**

**Member secretary / Chairman**

**SEIAA Kerala**

**KSRTC Complex, Thampanoor**

**Thiruvananthapuram, Kerala**

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## **1.INTRODUCTION**

Granite Building Stone Quarry of M/s.DECCAN ROCKS is situated at Re. Survey No's. 66/2,66/1,66/3-2,66/3,66/3-1,66/3-4,66/3-5,66/3-7,66/3-3,66/3-6,65/1 of Thalanad Village, Meenachil Taluk , Kottayam District, Kerala in respect of Mr. G. Satheesh Managing Partner M/s.DECCAN ROCKS.

Building Stone Quarry project of Sri. G. Satheesh was obtained with the Environmental Clearance ( EC No. 86/Q/2023) by State Environmental Impact Assessment Authority on 03.05.2023. As part of general condition No.48 of Environmental Clearance order and EIA Notification, the Half Yearly Compliance Report needs to be submitted by the Project Proponent.

We hereby submit the report contains the compliance of conditions of Environmental Clearance for the period of April 2024 – September 2024.



**COMPLIANCE TO THE CONDITION STIPULATED IN THE ENVIRONMENTAL CLEARANCE ISSUED BY STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA.**

**2. SPECIFIC CONDITIONS**

**Table 2. Specific Conditions**

<b>Sl. No.</b>	<b>Specific Conditions</b>	<b>Compliance Status</b>
1	The ultimate depth of mining is limited to 145 amsl.	The ultimate depth of mining limited to 145 amsl as per Approved Mining Plan.
2	The quarrying in the site shall be permitted only after getting the approval of the District level Crisis Management Committee for mining constituted vide G.O (R) No. 542/14/1D dated 26-05- 2014.	Noted. Obtained NOC from District level Crisis Management Committee on 01-02-2023. Copy of the same attached as <b>Annexure 6.</b>
3	Before issuing the permit/lease, the Mining & Geology Department should ensure that the Certificate from Crisis Management Group has been obtained by the project proponent.	Noted. Obtained Quarrying Lease on 07-08-2024.
4	The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.	We assure that all the quarrying activities will be carried out as per the Approved Mining Plan and strictly follows all the Kerala Minor Concession Rules 2015 and amendments thereby.
5	The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.	Noted. We will extent all possible cooperation to the officers from SEIAA and will produce all data/information/reports when they are asking for.
6	The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.	Noted. PP is aware of the condition.
7	Quarry blasting shall temporarily be stopped if there are two consecutive days of rainfall in the respective village until a completely rain free day occurs.	Scrupulously follow the directions contained.



8	Since the region in which the proposed site falls is fragile, in general, and considering the terrain fragility of the proposed site, it is desirable to obtain the approval of the District level Crisis Management Committee for mining constituted vide G.O (Ri) No. 542/14/D dated 26-05-2014, as a precautionary measure.	No Objection Certificate from District level Crisis Management Committee for mining is obtained and the same attached as <b>Annexure 06</b> .
9	Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.	Green belt will be developed in the buffer zone by planting trees, herbs and climbers of local species as per the condition.
10	Compensatory afforestation plan should be implemented from the 1 <sup>st</sup> year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.	Compensatory afforestation plan will be implemented from the 1 <sup>st</sup> year itself. Geotagged photographs of the progress of compensatory afforestation will be done in next HYCR
11	Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.	Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain will be provided prior to the commencement of mining.
12	Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.	Will follows the direction.
13	CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented	CER Plan will be implemented within the first 2 years
14	Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).	Transportation of mined material will not done at peak hours
15	The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.	The haul road will be provided as per the standards and will maintain frequent water sprinkling to avoid air borne dust.
16	Adequate sanitation, waste management and rest room facilities should be provided to the workers.	This facilities will be provided to the workers.
17	Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least 20% of the energy requirement of the project should be met from the solar power.	As part of energy conservation, the project proponent is planning to install solar street light in the project site to generate and utilize maximum renewable energy.

18	Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.	We will construct rain water harvesting pond in the project area to collect rain water and utilize it in the project area itself for dust suppression and green belt development.
19	The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR	To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, we will be constituted an Environment Monitoring Cell including the members as per the directions of SEIAA. The EMC shall meet monthly and review the activities and minutes shall be submitted along with next HYCR onwards.
20	A protection wall has to be constructed above and between BP11 and BPI2.	Noted.
21	Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.	The direction contained shall be scrupulously followed
22	As per OM no F.No.22-65/2017-IA.III dated 30 <sup>th</sup> September 2020, under Corporate Environmental Responsibility (CER) the project shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self-government Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support	Noted for compliance and we will scrupulously follows the directions contained. The respective project site not yet started. So, we assure that, the activities proposed for CER will be implemented in a time bound manner and implementation of the same along with documentary proof provided along with Half Yearly Compliance Report. We have submitted the Environmental Management Plan during the appraisal of EC application before SEAC incorporating site specific mitigation and management measures along with adequate budget provision. The EMP including CER will be implemented in consultation with local self-government Institutions.
23	In the wake of occurrence of large scale landslide in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding building and disturbance to human and wildlife	The direction contained shall be scrupulously followed. NONEL Blasting Technology will be adopted to reduce the Vibration on ground as per the recommendations from DMG and SEIAA. The blast vibration will be maintained at a vibration levels below the permissible limit of 15mm/sec (DGMS limits) to avoid landslides, formation of cracks in the

		surrounding buildings. We will be carried out all the preventive measures during blasting operations without disturbing the human and wildlife.
24	As per the directions contained in the OM F.No 22-34/2018-IA.III dated 16 <sup>th</sup> January 2020 issued by MoEF&CC, in obedience to the direction of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining activities and restore the land to a condition which is fit for growth of fodder , flora, fauna etc. the compliance of this direction shall be included in Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.	Noted for compliance and we will scrupulously follow the directions contained. The working of the quarry is just beginning. The reclamation will be started gradually and the benches will be reclaimed with planation, flora, fauna etc. We assure that, as a compensation of loss of trees in the core area we will plant atleast 5times of the loss of trees that has occurred and follow planting measures suggested by SEAC. We will be Properly upkeep and maintain planted seedlings. The compliance of the same will be incorporated in Half Yearly Compliance Report.
25	The violation of EC condition may lead to cancellation of EC and action under The Environment Protection Act 1986	We will give priority to the conditions stipulated in the Environment Clearance Order for execution. The project will execute all possible measures in the project site for the conservation of environment. The conditions of SEIAA are strictly followed.

**Table 3.General Conditions**

Sl. No	General Conditions	Compliance Status
1	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	An assurance in the form of affidavit was submitted to SEIAA Kerala
2	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives. Copy of all statutory clearances shall be submitted along with First Half Yearly Compliance Report	<ul style="list-style-type: none"> <li>• Quarrying lease</li> <li>• Environment Clearance from SEIAA</li> <li>• NOC from Explosive Dept.</li> <li>• D&amp;O License from the LSGD</li> <li>• Consent from Kerala Pollution Control Board</li> </ul>
3	The Project Proponent should advertise in newspapers that the project has been accorded Environmental Clearance and copies of clearance letter are available in the Office of SEIAA and on the website of the Authority at <a href="http://www.seiaakerala.in">www.seiaakerala.in</a> . The advertisement should be in atleast two local newspapers widely circulated in the region one of which shall be in vernacular language. The advertisement should be made within 10 days from the date of receipt of EC letter and copy of the same signed in all pages shall be forwarded to the office of this Authority as confirmation.	The advertisement of Environmental Clearance is given to the two local newspapers widely circulated in the region.
4	The Proponent shall send a copy of EC to concerned Grama Panchayat/District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental clearance shall also be put on the website of the company by the proponent.	EC copy is already submitted to the concerned Grama Panchayat. The Environmental Clearance is uploaded on the website of the company
5	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.	The direction contained will be scrupulously followed. To demarcate the lease area and to prevent falling of animals/ human being / dumping of garbage etc, we will installed barbed metal wire fencing around the lease area.
6	The details of Environmental Clearance should be prominently displayed in a metallic board of 3ft X 3ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area	A display board shows all the details about the project and EC provided at the entrance of the quarry site

	and boundaries shall be depicted at the entrance of the quarry, visible to the public.	
		
7	Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department, Mats to reduce fly rock blasts to a maximum of 10PPV should be provided	Magazine is keep at an isolated area located at more than 50 m from the mining area. Mats will be adopted to reduce fly rock blasts when quarrying operations started.
		
8	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.	As per the stipulation of Explosive department, we will install siren as warning alarm in the quarry site. Siren will range before the blasting time in order to give warning to the workers and public. The blasting timings will be displayed in the prominent area by way of caution board.
9	Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions	We will assure that, we will provide black topping in access roads to the quarry site to reduce dust emissions during transportation of materials. The transportation of minerals shall

		be done in covered trucks to reduce dust emissions. We will follow the same as per the directions contained.	
10	A separate environmental management cell with suitable qualified personal should be set-up under the chairmanship of Senior Executive, who will report directly to the Head of Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayat and a representative of NGO, if any active in the area. The EMC should meet atleast once in six months and review the activities and minutes should be a part of the compliance report	To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, we will be constituting an Environment Monitoring Cell including the members as per the directions of SEIAA. The EMC will meet atleast once in six months and review the activities and minutes shall be a part of the compliance report.	
	<b>Environmental Management Cell (EMC)</b>		
	<b>Sl No</b>	<b>Name</b>	<b>Designation</b>
	1	G. Satheesh	Head of the cell(Proprietor)
	2	Prashanth	Supervisor
	3	M/s Prime Technology Services	Environmental Consultant
	4	M/s Standards Laboratory	Environmental Monitoring Agency
11	Quarrying has to be carried out as per Approved Mining Plan with the suggestions from SEAC incorporated and following KMMC Rules 2015 and the Amendments thereby	We assure that all the quarrying activities will be carried out as per the Approved Mining Plan and will strictly follows all the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.	
12	The quarrying operation (Blasting) shall be restricted between 7 AM and 5PM	The working time of the quarry will be as per the rules and regulations.	
13	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR /KPBR,unless otherwise specified. Maximum possible solar energy generations and utilisations shall be ensured as essential part of the project	We will construct rain water harvesting pond in the project area to collect rain water and utilize in the project area itself for dust suppression and green belt development. We will install solar street lights in the respective quarry site.	
14	Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45 <sup>0</sup>	We assure that, the maximum depth of mining will be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining will not be deeper than the local ground water table. No mining operations will not be carried out at places having a slope greater than 45 <sup>0</sup>	

15	The height of any bench shall not exceed 5m and breadth shall not be less than the height	The quarrying activities will be progressing only by creating benches of 5m width and 5m height. The formation of benches will be under the direction and supervision of competent person.
16	The Project Proponent will ensure that no perennial or intermittent natural water course or water resources are obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken	We assure that, we will ensure that no perennial or intermittent natural water course or water resources will be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken
17	A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling units and other structures and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendation of SEAC depending on specific local conditions.	We will maintain a minimum buffer distance specified as per the existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling units and other structures and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendation of SEAC depending on specific local conditions
18	The proponent should plant seedlings atleast 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures suggested by SEAC. Suitable Avenue trees should be planted along the sides of approach road and internal roads and open parking areas. If any preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be ensured by the Project Proponent	We assure that, as a compensation of loss of trees in the core area we will plant atleast 5times of the loss of trees that has occurred and follow planting measures suggested by SEAC. We assure that we will plant Avenue trees along the sides of approach road and internal roads and open parking areas and preference should be given to endemic native and fruit bearing species. We will be Properly upkeep and maintain planted seedlings
19	The Proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants	We assure that, the buffer area of the respective site will be retained, maintained and strengthened with additions of native broad leaved plants
20	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystem. Overburden materials should be managed within the site and used for reclamation of	We assure that, eco-restoration including the mine closure plan will be done at own cost of This ecorestoration shall follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystem. The topsoil and overburden will be dumped in lower elevation of the project site



	mined pit as per mine closure plan /specific conditions	and over burden will be utilised for reclamation of mined pit as per mine closure plan/specific conditions.
21	At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumpings and overburden and planted with indigenous plant species if no other specific conditions on reclamation of pit is stipulated in the EC. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	At the time of closure of the mine, it shall ensure that directions contained will be scrupulously followed
22	Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines specific conditions	<p>We will limit the operation of quarry in specific time, exactly as directed by the KSPCB and comply them.</p> <p>The following control measures will be undertaken to bring down the noise levels:-</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Proper maintenance of machinery equipment's and improvement of design of machines.</li> <li><input type="checkbox"/> Personal Protective Devices i.e, earmuffs, helmet, and boots etc. are provided to workers.</li> <li><input type="checkbox"/> The mining activity is only during day time</li> </ul> <p>Noise level at the quarry site will be checked periodically, monitor through a NABL accredited laboratory during the quarry in operation.</p>
23	Periodical monitoring of the vibration at specified location (preferably at a distance of 50m and 100m) to be conducted and records kept in inspection. This could also form a part of the compliance reports	Noted for Compliance and we will scrupulously follows the directions contained
24	Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25kmph to prevent undue noise from empty trucks	We assure that we will be maintaining the speed of our trucks as per the prescribed standards to prevent undue noise from empty trucks.
25	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.	We will be provided Acoustic enclosures to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.

26	Blasting should be done in a controlled manner using NONEL Technique as specified by the regulation of Petroleum and explosive safety organization or any other concerned authorised agency. A licensed person should supervise/control the blasting operations.	Blasting will be done in a controlled manner, as specified by the regulations of Explosives Department or any other concerned agency. Obtained Explosive license and following the guideline stipulated.
27	Measures should be taken for maintaining the noise levels below 85dBA in the work environment.	We will take appropriate steps to reduce the sound by employing possible measures. Measurements of noise levels are taken in the work environment.
28	Project Proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.	Scurpulously follows the directions contained.
29	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.	The report of water quality will be given to the SEIAA in every six months.
30	Catch drains and siltation ponds of appropriate sizes shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilizing for watering the mine area. Roads, green belt development etc. the drains shall be regularly desalted particularly after monsoon and maintained properly.	We are very conscious to prevent all quarry waste to enter in the public drainage or stream. Garland drains with silt traps will be suitably constructed all along the periphery of the pit area. Garland Drains will collect the run-off from the lease area and divert into the desiltation tanks proposed within the complex. The surface runoff from the benches will runs into desiltation tank through the garland channel and then passes through the check dam into the natural drainage. All measures will be taken not to disturb the existing drainage pattern adjacent to the other property. Desiltation tank will be installed for silt removal. Cleaning of Desiltation tank will be done periodically. Clear water will be letting out.
31	Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that the ground water table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	We assure that, we will carry out regular monitoring of ground water level and its quality around the mine area during mining operation. The report of water quality will be given to the SEIAA in every six months. It is attached as <b>Annexure No:07</b> .

32	Garland drains and silt traps to be provided in the slopes around the core area to channelize storm water. Desilting of garland drains and silt traps have to be attended on daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of discharging storm, water as per the General effluent discharge Standards of CPCB	We are very conscious to prevent all quarry waste to enter in the public drainage or stream. Garland drains with silt traps will be suitably constructed all along the periphery of the pit area. Garland Drains will collect the run-off from the lease area and divert into the desiltation tanks proposed within the complex. The surface runoff from the benches will runs into desiltation tank through the garland channel and then passes through the check dam into the natural drainage. All measures will be taken not to disturb the existing drainage pattern adjacent to the other property. Desiltation tank will be installed for silt removal. Cleaning of Desiltation tank will be done periodically. Clear water will be letting out. For cleaning purpose we will assigned a labour and we shall ensure the quality of discharging storm, water as per the General effluent discharge Standards of CPCB
33	In case of any changes in the scope of the project , extent, quantity, process of mining technology involved or in any way affecting the environmental parameters impacts as assessed based on which EC was issued ,the project would require a fresh appraisal by this Authority for which the Proponent shall apply and get the approval of this authority. In case of transfer of EC's the matter shall be intimated and get the approval from the Authority as per the existing norms	The company will abide by the directions of SEIAA Kerala. The project will be executed as per plan submitted in Environmental Impact Assessment Authority, Govt. of India and approved mining plan. The project will seek for a new Environmental clearance in the case of any changes in the scope of the project.
34	The stipulations by statutory authorities under different acts and notifications should be complied with including the provision of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment Protection Act, 1986, The Public Liability (Insurance) Act ,1991 and EIA Notification,2006	We shall complied with the stipulations by statutory authorities under different acts and notifications including the provision of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment Protection Act, 1986, The Public Liability (Insurance) Act, 1991 and EIA Notification, 2006
35	The Top soil, if any, shall temporarily to be stored at earmarked sites, only. For the topsoil shall be used for land reclamation and plantation. The over burden generated during the mining operations shall be stacked at earmarked dump site only. The maximum height of the dumps shall not exceed 8 m and	The temporarily stored topsoil will be used only for land reclamation and plantation. It is ensured that the dump site where over burdens are stored should maintained at 45°of slope. To prevent the soil erosion, the top soil and overburden will be stacked in designated place within the project site. Only topsoil will be

	width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. Protection wall or gabions should be made around the dump to prevent erosion/flow of sediments during rains. The entire excavated area shall be backfilled	used for plantation. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place as per the direction.
36	All the mining equipments used in mining like backhoe loaders and excavators causes pollution and hence shall be serviced regularly and maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified under relevant rules/regulations	We assure that, we will be used mining equipments like backhoe loaders and excavators will be serviced regularly for their efficient functioning and for reducing pollution. Spent Oil will be disposed through the authorized recyclers
37	All vehicles used for transportation and within the mines shall have PUC certificate from authorized pollution talking Centre .washing of all vehicles shall be inside the lease area	The vehicles which will be used within mines will be having PUC certificate. As part of reducing air pollution, we will monitor the pollution level of all vehicles playing in the project site. This monitoring conducts only in authorized pollution testing center.
38	Effective safeguard measures such as regular watersprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, Loading and unloading points and transfer points and having high levels of PM10 and PM2.5. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the CPCB	Effective safeguard measures will be adopted in critical areas that are prone to air pollution. Also we will be placed water sprinklers in critical area to reduce the dust emission. Ambient Air Quality monitoring will be done according to the norms of CPCB is followed in loading – unloading points and transfer points.
39	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained	Water spraying arrangement on haul roads, loading and unloading at transfer points will be provided and will properly maintained.
40	Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out under CER should be part of Half Yearly Compliance Report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the SEIAA along with year wise expenditure	Noted for compliance and we scrupulously follow the directions contained. The work is not yet started in the respective site. The activities proposed for CER shall be implemented in a time bound manner and implementation of the same along with

		documentary proof provided along with the next Half Yearly Compliance Report.
41	The Project Proponent is responsible for implementing all the provisions of labour laws applicable from time to time quarrying /mining operation. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipments such as ear muffs, helmets etc	Scurpulously follows all the directions contained. The workers on the site will be provided with on-site accommodation or facilities at a suitable boarding place, protective equipments such as ear muffs, helmets etc and implementing all the provisions of labour laws applicable from time to time quarrying /mining operation.
42	The Proponent has to provide insurance protection to the workers in the case of existing minning or provide affidavit in case of fresh lease before execution of mining lease	Scurpulously follows all the directions contained
43	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures if needed. The report of health surveillance programs should be included in half yearly compliance report	A healthy surveillance program of the workers shall be undertaken periodically after the quarrying work started and report of health surveillance programs shall include in half yearly compliance report.
44	The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc in an eco-friendly manner	Scurpulously follows all the directions contained
45	If Government land is partly or fully used for mining, the area shall be returned at the end of lease period after mine closure with separate demarcation with suitable survey marks	The land is private owned land.
46	Any accident occurring in the mined out area after the lease period due to negligence in carrying out safety measures and non-closure, will lead to suspension of all EC obtained for mining by the Proponent	Noted
46	In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms	Noted
48	The Proponent shall submit HYCR(1 <sup>st</sup> of June & 1 <sup>st</sup> of December)on the status of compliance of stipulated EC Conditions including results of monitored data (both in hard copies as well as by email) and upload the status of compliance of the stipulated EC conditions including results	The compliance report is being submitted along with the results of monitored data to the State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC, Bangalore both in hard copy as well as mail.

	of monitored data on their website and shall update the same periodically. It shall be simultaneously sent to the respective Regional Office of Ministry of Environment Forest and Climate Change, Govt of India and also to the Officer of State Government Impact Assessment Authority (SEIAA).The Proponent has to submit Environmental statement in form V of Environment (Protection )Rules 1986 to SPCB on 31 <sup>st</sup> March every year	
49	The Project Authorities should extend full cooperation to the Officer from the Regional Office of MoEF&CC located at Banglore / SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated Conditions by furnishing the requisite data /information/monitoring reports	We will extent all possible cooperation to the officers form regional office of MoEF & CC and can produce all data/information/reports when they are asking for.
50	The above conditions shall prevail not withstand anything to the contrary in consistent or simplified, contained in any other permit, license on consent given by any other Authority for the same project	We will give priority to the conditions stipulated in the Environment clearance Order for execution.
51	The Authority reserves the right to add additional safeguard measures Subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	The quarry shall abide by the directions of SEIAA Kerala
52	The EC given will be withdrawn at any time if the area ids declared high hazardous by the SDMA	Noted
53	The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law	Noted
54	Any appeal against the Environmental Clearance shall lie with the National Green Tribunal if preferred, within a period of 30days as prescribed under the section of National Green Tribunal Act,2010	There is no appeal against EC

56	Concealing the factual data or submission of false/fabricated data and failure to comply with anyof the conditions mentioned above may result in withdrawal of the this clearance and attract action under the provisions of Environment protection Act,1986	Such a situation never come across. The Condition is noted for compliance.
56	The SEIAA may revoke or suspend the order, for non-implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter /modify the above conditions or stipulate any further conditions in the interest of environment protection.	We are willing to implement the conditions stipulated in the Environment Clearance order. The project will execute all possible measures in the project site for the conservation of environment. The conditions of SEIAA will be strictly followed
57	As per regulation no.106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six metres and breadth shall not be less than the height	Scurpulously follows all the directions contained

# ANNEXURES



**ANNEXURE 1**  
**Environmental Clearance**



**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Issued by the State Environment Impact Assessment**  
**Authority(SEIAA), Kerala)**

To,

The ManagingPartner  
GRANITE BUILDING STONE QUARRY OF M/S DECCAN ROCKS  
Theekoy P.O, Thalanadu, Meenachil Taluk, Kottayam. -686580

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)  
in respect of project submitted to the SEIAA vide proposal number  
SIA/KL/MIN/191604/2021 dated 20 Sep 2021. The particulars of the environmental  
clearance granted to the project are as below.

1. EC Identification No.	EC23B001KL160578
2. File No.	1931/EC3/2022/SEIAA
3. Project Type	New
4. Category	B2
5. Project/Activity including Schedule No.	1(a) Mining of minerals
6. Name of Project	Granite Building Stone Quarry of M/s Deccan Rocks at Re-Survey Nos. 66/2,66/1,66/3-2,66/3,66/3-1,66/3-4,66/3- 5,66/3-7,66/3-3,66/3-6,65/1 of Thalanad Village, Meenachil Taluk, Kottayam District, Kerala, for an area of 3.9736 hectares.
7. Name of Company/Organization	GRANITE BUILDING STONE QUARRY OF M/S DECCAN ROCKS
8. Location of Project	Kerala
9. TOR Date	N/A

The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

Date: 03/05/2023

(e-signed)  
Dr. Venu V IAS  
Member Secretary  
SEIAA - (Kerala)

**Note:** A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.

*This is a computer generated cover page.*



## **PROCEEDINGS OF THE STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – KERALA, THIRUVANANTHAPURAM**

*(Present: Dr. H. Nagesh Prabhu IFS (Retd), Chairman, Shri. K. Krishna Panicker,  
Member, Dr. V. Venu IAS, Member Secretary)*

**Sub: SEIAA –Environmental Clearance for the Building Stone Quarry Project of Sri. G. Satheesh, Managing Partner, M/s Deccan Rocks, Theekoy P.O, Thalanadu Meenachil Taluk, Kottayam–Granted – Orders issued.**

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**State Level Environment Impact Assessment Authority, Kerala**

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**Proposal No. SIA/KL/MIN/191604/2021**

**File No. 1931/EC3/2022/SEIAA**

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- Ref: 1. Application from Sri. G. Satheesh received on 20-09-2021.  
2. Minutes of the 136<sup>th</sup> SEAC meeting held on 09<sup>th</sup> to 10<sup>th</sup> & 11<sup>th</sup> January.  
3. Minutes of the 123<sup>rd</sup> SEIAA meeting held on 27<sup>th</sup> & 28<sup>th</sup> January, 2023.  
4. Minutes of the 139<sup>th</sup> SEAC meeting held on 3<sup>rd</sup> to 4<sup>th</sup> March 2023.  
5. Minutes of the 125<sup>th</sup> SEIAA meeting held 28<sup>th</sup> & 29<sup>th</sup> March 2023.  
6. G.O (Rt.) No.29/2019/Env't dt.12.04.2019.

### **ENVIRONMENTAL CLEARANCE NO. 86/Q/2023**

Sri. G. Satheesh, Managing Partner, M/s Deccan Rocks, Theekoy P.O, Thalanadu Meenachil Taluk, Kottayam - 686 580 submitted an application for Environmental Clearance via PARIVESH, for the Granite Building Stone Quarry Project, for an area of 3.9736 Ha. at Re Survey Nos. 66/2, 66/1, 66/3- 2,66/3, 66/3-1, 66/3-4, 66/3-5, 66/3-7, 66/3-3, 66/3-6, 65/1 in Thalanad Village, Meenachil Taluk, Kottayam, Kerala. The project details are as follows:

SL. No.	Particulars	Details
1	Name of the Project	Granite Building Stone Quarry Project of Sri. G. Satheesh
2	Proposed Activity	Mining of Granite Building Stone
3	Name of the Sector & Schedule No. (in the EIA Notification, 2006)	Non Coal mining, Activity 1(a), Category H2
4	Name & Address of the Project Proponent	Sri. G. Satheesh, Managing Partner, M/s Deccan Rocks, Theekoy P.O, Thalanadu, Meenachil, Kottayam -686 580
5	Project Location	
	a) Re.Survey Nos.	66/2, 66/1, 66/3- 2, 66/3, 66/3-1, 66/3-4, 66/3-5, 66/3-7, 66/3-3, 66/3-6, 65/1
	b) Revenue Village	Thalanad
	c) Taluk	Meenachil
	d) District	Kottayam
6	Geo Co-ordinates	Latitude 9°42'56.93"N to 9°43'4.89"N Longitude 76°47'36.46"E to 76°47'46.60"E
7	Extent (Hectare)	3.9736
8	Project Cost	Rs. 3,03,00,000/-
9	Estimated Mineable Reserve	1372787MT
10	Water Requirement	10 KLD (2 KLD for domestic consumption, 5 KLD for dust suppression and 3 KLD for green belt development).
11	Date of Field Inspection	28.07.2022

### CER Details

Particulars	Amount
(Project Cost For 800sq. feet room-Rs.1300 Per sq.ft)	
Labour charges (25%)	Rs. 2,60,000/-
Material Charges (75%)	Rs. 7,80,000/-
Cement (13%)	Rs. 1,35,200/-
Steel (14%)	Rs.1,45,600/-
Sand (8%)	Rs. 83,200/-
Metal (4%)	Rs. 41,600/-
Bricks (10%)	Rs.1,04,000/-
Painting, Floor Tiling, Plumbing and Electrical, Door and Window Works (23%)	Rs. 2,39,200/-
Additional works (3%)	Rs.31,200/-
<b>Total Project Cost</b>	<b>Rs. 10,40,000/-</b>

2. In the 136<sup>th</sup> SEAC, the Committee recommended EC for a project life of 8 years subject to the certain Specific conditions in addition to the general conditions.

3. In the 125<sup>th</sup> SEIAA meeting, the Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the

proposal based on Form 2, Pre-Feasibility Report, EIA Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. As per the approved mining plan mine life is 8 years. After the due appraisal, the SEAC in its 136<sup>th</sup> meeting recommended EC for a Project Life of 8 years with certain Specific Conditions in addition to the General Conditions.

4. The Authority noted that for the sustainable management of quarry operations, the approved mining plan is revised every five years till the project life of mine as per KMMC Rules, incorporating scheme of activities to be carried out for the next 5 years. Authority is of the opinion that it is essential to match these procedures and time lines followed in the department of Mining and Geology with the time lines ECs issued for the sustainable management of quarry operations and protection of environment in the project region.

5. The Authority decided to issue Environmental Clearance initially for a period of 5 years, from the date of execution of mine lease / permit, with the Mining and Geology Department, and then to extend the EC period to cover the project life of 8 years, for the quantity of 1372787 MT by limiting the depth of mining to 145m amsl, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region.

The EC is subject to General Conditions and the following Additional Specific Conditions.

- 1. The ultimate depth of mining is limited to 145 amsl.*
- 2. The quarrying in the site shall be permitted only after getting the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.*
- 3. Before issuing the permit/lease, the Mining & Geology Department should ensure that the Certificate from Crisis Management Group has been obtained by the project proponent.*
- 4. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*



5. *The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
6. *The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.*
7. *Quarry blasting shall temporarily be stopped if there are two consecutive days of rainfall in the respective village until a completely rain free day occurs.*
8. *Since the region in which the proposed site falls is fragile, in general, and considering the terrain fragility of the proposed site, it is desirable to obtain the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014, as a precautionary measure.*
9. *Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.*
10. *Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.*
11. *Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.*
12. *Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.*
13. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented*
14. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
15. *The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.*
16. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*

17. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least 20% of the energy requirement of the project should be met from the solar power.
18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority
19. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR
20. A protection wall has to be constructed above and between BP11 and BP12.
21. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.
22. As per OM no F.No.22-65/2017-IA.III dated 30<sup>th</sup> September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.
23. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.
24. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16<sup>th</sup> January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this



*direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*

*25. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

**6. Environmental Clearance as per the EIA Notification, 2006 is hereby accorded for the Granite Building Stone Quarry Project of Sri. G. Satheesh, Managing Partner, M/s Deccan Rocks, Theekoy P.O., Thalanadu, Meenachil Taluk, Kottayam -686 580, for an area of 3.9736Ha. at Re-Sy Nos. 66/2, 66/1, 66/3- 2, 66/3, 66/3-1, 66/3-4, 66/3-5, 66/3-7, 66/3-3, 66/3-6, 65/1 in Thalanad Village, Meenachil Taluk, Kottayam, initially for a period of 5 years, from the date of execution of mine lease with Mining and Geology Department, and then to extend the EC period to cover the project life of 8 years, for the quantity of 1372787 MT by limiting the depth of mining to 145m amsl, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region, subject to the Specific Conditions in Para 5 above, and all the environmental impact mitigation and management measures undertaken by the Project Proponent in the Form I, EMP, PFR and Mining Plan submitted to SEIAA. The assurances and clarifications given by the Project Proponent will be deemed to be a part of this Proceedings as if incorporated herein. Also the General Conditions for projects stipulated for mining (items 1 to 57), mentioned below will be applicable and have to be strictly adhered to.**

**7. The Environmental Clearance issued will also be subject to full and effective implementation of all the undertakings given in the Application Form, mitigation measures as assured in the Environment Management Plan and the mining features including Progressive Mine Closure Plan as submitted with the application. The above undertakings and the conditions and the undertakings in (Mining), (Blasting), (Mines Drainage), (Stacking of Mineral rejects and Disposal of waste), (Environment Management Plan) & (Progressive Mine Closure Plan) of the Mining Plan as submitted will be deemed to be part of this Proceedings as conditions as undertaken by the Project Proponent, as if incorporated herein.**

8. Validity of the Environmental Clearance will be initially for a period of 5 (Five) years and then to extend the EC period to cover the project life of 8 years, as per conditions stipulated in para (6) from the date of execution of mine lease / permit, from Mining & Geology Department, subject to the review by SEAC at the end of five years, as per SO 1807(E) dated 12.04.2022 of MoEF & CC, subject to earlier review of EC in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.

9. Compliance with the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices and also by the Regional Office of the Ministry of Environment, Forest & Climate Change, Govt. of India, Bangalore. Necessary assistance for entry and inspection should be provided by the Project Proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring. Instances of violation if any shall be reported to the District Collector, Kottayam.

10. The Half Yearly Compliance Report (HYCRs) with name of the project, EC No. and date, the period of submission with its contents, compliance report and environmental monitoring data & covering letter have to be uploaded in the Parivesh Portal as per O.M. F.No.IA3-22/1/2022-IA-III(E)-17264 dated 14.06.2022 and the website of the Project Proponent. Hardcopy of HYCRs shall not be acceptable.

11. The given address for correspondence with the authorised signatory of the project is Sri. G. Sathesh, Managing Partner, M/s Deccan Rocks, Theekoy P.O., Thalanadu, Meenachil Taluk, Kottayam -686 580.

#### **GENERAL CONDITIONS**

1. The Project Proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.
2. All the statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly

Compliance Report.

3. The project proponent should advertise in newspapers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at [www.seiaakerala.in](http://www.seiaakerala.in). The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
4. The proponent shall send a copy of the EC to concerned Grama Panchayat/ District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be uploaded on the website of the company.
5. The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc) shall be conspicuous and maintained at all times.
6. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.
7. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.
8. Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.
9. Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.
10. A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The



EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report.

11. Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby.
12. The quarrying operation (Blasting) shall be restricted between 7 AM and 5PM
13. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
14. Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45°.
15. The height of any bench shall not exceed five meters and breadth shall not be less than the height.
16. The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources are obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
17. A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.
18. The proponent should plant seedlings at least 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures as suggested by SEAC. Suitable avenue trees should be planted along the sides of the approach road and internal roads and open parking areas, if any. Preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be ensured by the project proponent.
19. The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.

20. Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions.
21. At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the E.C. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.
22. Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
23. Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 m) to be conducted and records kept for inspection. This could also form a part of the compliance reports.
24. Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
25. Acoustic enclosures should be provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standard limit indicated by CPCB/KSPCB.
26. Blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive safety organization (GOI) or any other concerned authorized agency. A licensed person should supervise/ control the blasting operations.
27. Measures should be taken for maintaining noise levels below 85 dBA in the work environment.
28. Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.
29. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly compliance reports to SEIAA.

30. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps, to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, and for green belt development etc. The drains shall be regularly desilted and maintained properly, particularly after monsoon.
31. Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
32. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.
33. In the case of any change(s) in the scope of the project, extent, quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which the E.C was issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the approval from the Authority as per the existing norms.
34. The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
35. The top soil, if any, shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained at 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.



36. All the mining equipment used in Mining like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
37. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area.
38. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM<sub>10</sub> and PM<sub>2.5</sub>. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.
39. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained.
40. Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure.
41. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.
42. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.
43. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports.
44. The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco friendly manner.
45. If Government land is partly or fully used for mining, the area shall be returned at the end of

lease period after mine closure with separate demarcation with suitable survey marks.

46. Any accident occurring in the mined out area after the lease period due to negligence in carrying out safety measures and non-closure, will lead to suspension of all EC obtained for mining by the Proponent.
47. In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.
48. The proponent shall submit Half Yearly Compliance Reports (1<sup>st</sup> of June & 1<sup>st</sup> of December) on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall be simultaneously sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31<sup>st</sup> March every year.
49. The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at Bangalore/SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports.
50. The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project.
51. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environment Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
52. The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.
53. The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law.
54. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green



Tribunal Act, 2010.

55. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
56. The SEIAA may revoke or suspend the order, for non implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.
57. As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.

Sd/-

**Administrator, SEIAA  
For Member Secretary, SEIAA**

To,

Sri. G. Satheesh,  
Managing Partner,  
M/s Deccan Rocks,  
Theekoy P.O.,  
Thalanadu, Kottayam -686 580

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034(through e-mail: rosz.bng-mefcc@gov.in).
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
3. The Director, Directorate of Environment & Climate Change, 4<sup>th</sup> Floor KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala- 695 001.
4. The District Collector, Kottayam.
5. The Director, Mining & Geology, Thiruvananthapuram -4.
6. The Member Secretary, Kerala State Pollution Control Board.
7. The District Geologist, Kottayam.
8. The Tahsildhar, Meenachil Taluk, Kottayam.
9. The Secretary, Thalanad Grama Panchayat, Meenachil Taluk, Kottayam.
10. The Chairman, SEIAA.
11. Website.
12. S/f
13. O/c

**Signature Not Verified**

Digitally signed by D. Venu V IAS  
Member Secretary  
Date: 5/3/2023 2:56:57 PM

## **ANNEXURE 2**

### **Quarry Lease**

1154/1/2024

78295153

DRGKTM/2772/2024/A2 CERTIFICATE U/S 32 (1)(b) of KERALA STAMP ACT 1959  
Certified that the proper stamp duty of Rs 1056395 (Rupees Ten Lakhs Fifty Six Thousand Three  
Hundred and Eighty Five only) with which the instrument is chargeable has been remitted  
In this office as per ETR5 receipt / challan No. ETR001400498202425  
Dated 14/8/2024 This document contains 9 sheets.

Office of the District Registrar (GL)  
Kottayam dated 14/8/2024

Binoy. G.  
District Registrar (General) / Collector  
Kottayam



**FORM H**  
(See Rule 43)  
**QUARRYING LEASE**



M/s Deccan Rocks (Represented by its Managing Partner Shri.G.Satheesh)

This deed of lease made on this the 7<sup>th</sup> day of August 2024 between the Governor of Kerala

On behalf of the Governor of Kerala  
SENIOR GEOLOGIST, SANGEETHA SATHISH

M/s Deccan Rocks (Represented by its Managing Partner  
Shri.G.Satheesh)

*[Signature]*  
7/8/24

*[Signature]*  
7/8/24

(hereinafter referred to as the "State Government" which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and **M/s Deccan Rocks, Teekoy P.O., Thalanadu, Meenachil Taluk, Kottayam District – 686580 (PAN CARD No: AAQFD1527M) (Represented by its Managing Partner Shri.G.Satheesh, aged 54, son of E.K.Gangadharan, Resident of Kochukottarathil, Thottamon in the Ranny Village of Ranny Taluk of Pathanamthitta Dist.) (AadharNo.229515624826)** (hereinafter called the "lessee/lessees" which expression shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part.

Witnesseth that in consideration of the rents and royalties and lessee's/lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring **3.9736** hectares described in the schedule hereunder and delineated on the plan hereto annexed and there in coloured red (hereinafter called the "said lands") to hold the same for a period of **8 (Eight)** years commencing from the **07/08/2024** and ending on the **06/08/2032** for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 and Kerala Minor Mineral Concession (Amendment) Rules 2023 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing.

1. The lessee/lessees shall have the right in and upon the said lands to extract Granite Building Stone (hereinafter called the said mineral/minerals) and to do all acts necessary for the extraction of the said mineral/minerals including the erection on the said lands, buildings and plant required for the purposes and also to take lead and carry away over the said lands and to dispose of the said minerals extracted as aforesaid.

On behalf of the Governor of Kerala  
SENIOR GEOLOGIST, SANGEETHA SATHISH

M/s Deccan Rocks (Represented by its Managing Partner  
Shri.G.Satheesh)

*[Signature]*  
7/8/24  
*[Signature]*  
7/8/24



2. The lessee / lessees shall during the subsistence of this leaves have the liberty to work the said mineral/ minerals and remove the same from the lease hold on permits issued by the State Government/ competent authority or any other officer authorized by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the rates specified in schedule I to these Rules. The royalty rates shall be subject to revision from time to time as the State Government may order
3. The lessee/lessees shall pay to the State Government a yearly surface rent equal to the land revenue if any, assessable under the rules for the time being in force, or if the land be the property of Government or in reserve forest then equal to the land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee/lessees for any of the purposes of this deed and so in proportion for any area less than one hectare. The said surface rent shall be paid by yearly payments; the first of such payments to be made on or before the last day of the first year of occupation provided always that no such rent shall be paid or demanded in respect of any roads or ways now in existence.
4. The lessee/lessees shall at all times during the currency of this lease keep correct and intelligible books of account showing accurately the quantity of the said minerals extracted and the weight and value of the said mineral sold or exported together with the names of the purchasers or consignees. The lessee shall also maintain a register of employees showing therein separately men, women employed daily and shall at reasonable times allow the competent authority appointed under the rules (hereinafter referred to as "competent authority") or the officer authorized by him to examine

On behalf of the Governor of Kerala  
SENIOR GEOLOGIST, SANGEETHA SATHISH

M/s Deccan Rocks (Represented by its Managing Partner  
Shri.G.Satheesh)

*[Signature]*  
2/8/24

*[Signature]*  
2/8/24

the said books of account and the register of employees and to take copies and extracts there from. The lessee/lessees shall submit reports in Forms F and G on the specified dates.

5. All sums found due under or by virtue of this deed from the lessee/lessees may be recovered from him jointly and severally from them and his/their properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue or in any other manner as the State Government may deem fit.
6. The lessee/lessees shall at the lessee's/lessees' own expense erect and at all times maintain and keep in repair boundary marks and pillars along the boundaries of the said lands according to the demarcation shown in the plan here to annexed.
7. The lessee shall not carry on or allow to be carried on any quarrying operations at or to any points within a distance of 100 meters from any railway line except with the previous written permission of the railway administration concerned and any bridge on National Highway or 50 meters from any reservoir, tanks, canals, rivers, bridges, public roads, other public works, residential buildings, the boundary walls of places of worship, burial grounds or burning ghats or any monument protected by Government except with the previous permission of the authorities concerned or the Government or competent authority: Provided that the railway administration or the State Government or any other authority in this behalf may in granting such permission impose such other conditions as may be found proper and necessary.
8. The sides of open workings shall be sloped, stepped or secured by the lessee in such a manner as to prevent slope failure, when an open working is worked in steps, steps shall be of sufficient breadth in relation to their height to secure safety. In open workings trees liable to fall and all loose ground and material shall be removed by the lessee sufficiently far from the edge or otherwise made source in order to prevent danger to persons employed in the quarry.
9. If a working place is found to be unsafe all persons shall be withdrawn by the lessee/lessees immediately from the dangerous area and all access to such working place except for the purpose of removing the danger of saving life shall be prevented by securely fencing the full width of all entrances to the place.
10. The lessee/lessees shall at all reasonable times allow any officer authorized by the Central Government or by the State Government in that behalf to inspect the said lands and the buildings and plants erected thereon and the lessee/lessees shall assist such persons in conducting the inspection and afford them all information they may reasonably require, and shall conform to and observe all orders which the Central and State Governments as the result of such inspection or otherwise, may from time to time pass.
11. The lessee shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.
12. The lessee/lessees shall not assign or underlet the said lands or any part thereof or the rights or privileges, therein hereby granted or any of them without the previous permission in writing of the State Government/competent authority.
13. Where the lease or any right, title or interest therein has been assigned, sublet or transferred as provided in Rule 45 read with condition 12, then the person in whose favour such assignment, sublease or transfer has been made shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.

On behalf of the Governor of Kerala  
SENIOR GEOLOGIST, SANGEETHA SATHISH

M/s Deccan Rocks (Represented by its Managing Partner  
Shri.G.Satheesh)

*[Signature]*  
2/8/2024

*[Signature]*  
2/8/24



14. The lease may be surrendered by the lessee/lessees at any time after 3 months notice in writing to the State Government/competent authority: Provided the lessee/lessees has/have paid all sums due on account of the lease. Provided further that if the lessee/lessees elects/elect to determine this lease before the expiry of the term of the lease, shall pay in addition to other dues a sum equal to the dead rent payable for the remaining part of the term of the lease deed.
15. If the lessee/lessees shall be desirous of taking a further lease of the said lands for a further term he/they shall give three months' previous notice in writing of such desire to the State Government/competent authority and if the lessee/lessees has/have duly observed all the conditions of this lease, the State Government/competent authority may agree to renew the lease for such further term and on such terms and conditions as the State Government/competent authority may determine which shall be in accordance with the provisions of these rules.
16. If the lessee/lessees shall at any time during the said term use the said lands or any part thereof in any manner other than as authorized by this lease or fail to carry on quarrying operations as per the approved mining plan without sufficient cause of which the State Government/competent authority shall be the judge or shall commit a breach of any of the conditions of this lease it shall be lawful for the State Government/competent authority to cancel this lease after giving the lessee an opportunity of being heard or the alternative to receive from the lessee/lessees such penalty not exceeding Rs.5,00,000/- (Rupees Five Lakhs only) for the breach as the State Government/competent authority may fix.
17. In cases where the area under quarrying lease is Government land, the lessee shall close the mine within three calendar months after the expiry of the lease or its determination and remove any engine, machinery, buildings, structures and other works and conveniences from the area under the lease. If the lessee does not remove the same within the said period, the same shall become the property of the State Government and the State Government shall have the right to dispose the same on such terms and conditions as it deems fit.
18. This lease subject to all rules and regulations which may from time to time be issued by the State Government regulating the working of the quarries and other matters affecting safety, health and convenience of the lessee's/lessees' employees or of the public, whether under the Indian Mines Act or otherwise.
19. The lessee/lessees shall without delay send to the District Collector and the competent authority or the officer authorized by him in this regard report of any accident causing loss of life or serious bodily injuries or seriously affecting or endangering life or property which may at any time occur at or in the said lands in the course of operations under this lease.
20. The lessee/lessees shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may prescribe.
21. The lessee/lessees shall make and pay such reasonable compensation as may be assessed by lawful authority in accordance with the law in force on the subject for all damage, injury or disturbance which may be done by him/them in exercise of the powers granted by this lease and shall indemnify and shall keep indemnified fully and completely the State Government against all claims which may be made by any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith.
22. Any condition prescribed in the Kerala Minor Mineral Concession Rules, 2015 but left out in this lease which may be found applicable to the lessee/lessees shall be treated as binding on the lessee/lessees.

On behalf of the Governor of Kerala  
SENIOR GEOLOGIST, SANGEETHA SATHISH

M/s Deccan Rocks (Represented by its Managing Partner  
Shri.G.Satheesh)

*[Signature]*  
2/8/24  
*[Signature]*  
2/8/24

23. In this case, the anticipated royalty to be remitted for the mineral extracted per year at the present rate of royalty of Rs. 48/-per tonne for the proposed average annual production of 171598.38 metric tonne is **Rs. 82,36,722/- (Rupees eighty two lakhs thirty six thousand seven hundred and twenty two only)**

24. In this case, the annual surface rent to be remitted per year at the present rate of Rs8/-per Are per year is Rs 3,179 /- (Rupees Three thousand one hundred and seventy nine only) and the refundable Security Deposit is Rs.39,736/-(Rupees Thirty nine thousand seven hundred and thirty six only)

### SCHEDULE OF DESCRIPTION OF LAND

**District : Kottayam**

**Taluk : Meenachil**

**Resurvey Block No : 59**

SLNo	District	Village or Amsom	Survey No. of the area	Area in Hectares
1.	Kottayam	Thalanadu	66/2	0.4041
2.	Kottayam	Thalanadu	66/1	0.4691
3.	Kottayam	Thalanadu	66/3-2	0.1416
4.	Kottayam	Thalanadu	66/3	0.3480
5.	Kottayam	Thalanadu	66/3-1	0.0180
6.	Kottayam	Thalanadu	66/3-4	0.3268
7.	Kottayam	Thalanadu	66/3-5	0.4027
8.	Kottayam	Thalanadu	66/3-7	0.0885
9.	Kottayam	Thalanadu	66/3-3	1.0897
10.	Kottayam	Thalanadu	66/3-6	0.0885
11.	Kottayam	Thalanadu	65/1	0.5966
Total Area in hectares				3.9736

On behalf of the Governor of Kerala  
SENIOR GEOLOGIST, SANGEETHA SATHISH

M/s Deccan Rocks (Represented by its Managing Partner  
Shri.G Satheesh)

*[Handwritten signature]*  
7/8/24



**Bounded by Survey Nos.**

<b>On the North by</b>	<b>60, 62, 66/1</b>
<b>On the East by</b>	<b>65/1, 66/3-7, 74</b>
<b>On the South by</b>	<b>67, 74, 66/3-3</b>
<b>On the West by</b>	<b>60, 66/2, 66/3-1, 66/3-4</b>

In witness where of the parties hereto have signed on the date and year first above written.

Signed by

**SANGEETHA SATHISH (PEN-373965)**

SENIOR GEOLOGIST,  
DEPARTMENT OF MINING AND GEOLOGY,  
DISTRICT OFFICE KOTTAYAM.

*Sdp 2/8/24*



**GEOLOGIST  
DISTRICT OFFICE  
DEPT OF MINING AND GEOLOGY  
LECTORATE P.O. KOTTAYAM-685 002**

For and on behalf of the Governor of Kerala.

In the presence of

1) Neethu V.S. (PEN-933269)

Assistant Geologist,  
District office of the Department of Mining and Geology,  
Kottayam.

*K/V 2/8/24*

2) Rajanimol K.R (PEN-316710)

Senior Clerk,  
District office of the Department of Mining and Geology,  
Kottayam.

*Rajanimol 4/8/24*

On behalf of the Governor of Kerala  
SENIOR GEOLOGIST, SANGEETHA SATHISH

*Sdp 2/8/24*

M/s Deccan Rocks (Represented by its Managing Partner  
Shri.G.Satheesh)

*[Signature] 2/8/24*

Signed by

G Satheesh (Aadhar No. 229515624826)  
Managing Partner, M/s DeccanRocks

Teekoy P.O., Thalanadu-686580 For DEC  
Kottayam (Dist.)

Managing Partner



For and on behalf of the lessee/lessees In the presence of

1) Siby Mathew (Aadhar card No. 9614 6004 7483)  
S/o Mathew, Kochuthekkel House, Mundappally, Yendeyar P.O,  
Koottickal,  
Pin: 686 514

2) Nithin M. Nair (Aadhar card No. 2675 5954 0429)  
S/o Mohanan Nair, Panthanazhiplackal House,  
Thottamon, Ranni P.O,  
Pin: 689 672

Prepared by G. Vinod, Govindavilasam House, Thampalakkadu Kara,  
Kanjirappally Village, Kanjirappally Taluk. Licence No.KDA265

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On behalf of the Governor of Kerala  
SENIOR GEOLOGIST, SANGEETHA SATHISH

M/s Deccan Rocks (Represented by its Managing Partner  
Shri.G.Satheesh)

69

**LEASE AREA : 3.9736 HA**

LEGEND

PROPOSED LEASE AREA  
INCLUDING BUFFER

SURVEY LINE

POLLER

SUB DIVISION LINE

ROCK MARBLE

////

HOUSE / BUILDING

PRIVATE RO

PANCHAYAT

PWD ROAD

SCALE : 1 CM = 20 M

### PROPERTY DETAILS

NO.	DOC.NO.	THANDAPUR	LOCK NO.	RE SY. No.	IN POSITION	BUFFER AREA	MIXED AREA	PROPOSED LEASE AREA	NAME OF OWNER	
A	740/1/2019	5206	✓	59	66/2	0.6480 Ha	0.1213 Ha	0.2328 Ha	0.4041 Ha	1- <u>G.SATISHA S/O</u> <u>GANGADHARAN</u>
B	742/1/2019	5206	✓	59	66/1	0.5030 Ha	0.1082 Ha	0.3609 Ha	0.4691 Ha	
		5206	✓	66/2-2	0.1416 Ha	—	0.1416 Ha	0.1416 Ha		
		5206	✓	66/3	0.3420 Ha	0.0366 Ha	0.3114 Ha	0.3480 Ha		
740/1/2019		5206	✓	66/3-1	0.0886 Ha	0.0102 Ha	0.0078 Ha	0.0180 Ha	2- <u>SMITHA SATHISH</u> <u>W/O G.SATISHAN</u>	
		5206	✓	66/3-4	0.7507 Ha	0.0838 Ha	0.2430 Ha	0.3268 Ha		
		5206	✓	66/3-5	0.4027 Ha	0.0167 Ha	0.3660 Ha	0.4027 Ha		
C	741/1/2019	5206	✓	66/3-7	0.0885 Ha	0.0130 Ha	0.0755 Ha	0.0885 Ha		
		716/1/2019	5199	✓	66/3-3	1.1534 Ha	0.1224 Ha	0.9673 Ha		1.0897 Ha
			5199	✓	66/3-6	0.0885 Ha	—	0.0885 Ha		0.0885 Ha
D	7452/1/2019	5199	✓	66/3-1	0.6920 Ha	0.1324 Ha	0.4642 Ha	0.5966 Ha	G.SATISHAN S/O GANGADHARAN	
		TOTAL AREA.				4.9050 Ha	0.6646 Ha	3.3090 Ha		3.9796 Ha

COUNTER SIGNED

TAHSILDAR MAHESH CHIL

1) Page 2 - off road construction of road  
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278 and 279 (see map) and  
280 and 281 (see map) and  
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284 and 285 (see map) and  
286 and 287 (see map) and  
288 and 289 (see map) and  
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294 and 295 (see map) and  
296 and 297 (see map) and  
298 and 299 (see map) and  
300 and 301 (see map) and  
302 and 303 (see map) and  
304 and 305 (see map) and  
306 and 307 (see map) and  
308 and 309 (see map) and  
310 and 311 (see map) and  
312 and 313 (see map) and  
314 and 315 (see map) and  
316 and 317 (see map) and  
318 and 319 (see map) and  
320 and 321 (see map) and  
322</



Lease - 66024100 /-

ice - 264096 /-

FAI - 105 /-

2 Duplicates - 420 /-

Register No 1154 of 2024 In Book 1

Fee - 9 sheets 9th sheet 50 - 1052385 /-  
Sub Registrar



# **ANNEXURE 3**

## **Explosive License**





**भारत सरकार | Government of India**  
वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry  
**पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसी) | Petroleum & Explosives Safety Organisation (PESO)**  
पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives  
A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन | A & D - Wing, Block 1-8, IInd Floor, Shastri Bhavan  
26 हड्डोउस रोड, नुंगम्बक्कम चेन्नै | 26 Haddous Road, Nungambakkam Chennai 600006  
फोन (Phone):- 28281023 | फैक्स (Fax):- 28284848

संख्या (No.): E/SE/KL/22/391(E144114)

दिनांक (Date): 04/10/2023

सेवा में | To,

M/S DECCAN ROCKS,  
Njandukallu, Theekoyi P.O, Thalanadu, Town/Village - Thalanadu  
District-KOTTAYAM, State-Kerala, Pincode - 686580

**विषय:** Survey No. Block No. 59, Sy No. 63/2, ग्राम Thalanadu, जिला KOTTAYAM, राज्य Kerala में मेसर्स M/S DECCAN ROCKS द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SE/KL/22/391(E144114) के संशोधन संदर्भ में।  
(विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन अरिखण / सुविधाएं / परिसर में परिवर्तन)

**Subject:** Possession for Use of Explosives from magazine situated at Survey No.: Block No. 59, Sy No. 63/2, Thalanadu, Dist. KOTTAYAM, Kerala -Licence No.: E/SE/KL/22/391(E144114) granted in Form LE-3 of Explosives Rules, 2008 -  
(Amendment of Quantity of Explosives/Monthly Purchase Limit Amendment in Drawings/Facilities/Premises).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या 98964 दिनांक 02/10/2023 का संदर्भ ग्रहण करें।  
Please refer to your letter no. 98964 dated 02/10/2023.

अनुज्ञप्ति संख्या E/SE/KL/22/391(E144114) Usage of Explosives at Granite Building Stone Quarry of the Licensee situated at Re. Survey No.: 66/1, 66/2, 66/3-2, 66/3, 66/3-1, 66/3-4, 66/3-5, 66/3-7, 66/3-3, 66/3-6 & 65/1, Thalanad Village, Meenachil Taluk, Kottayam District, Kerala wide E.C identification No. EC23B001KL160578, dated 03.05.2023, issued by SEIAA, Thiruvanthapuram under the following conditions: 1. Opening of Mines should be intimated to DGMS and Director of Mines & Geology. 2. Blasting Operations should be conducted as per Mines Act & Rules. 3. Usage of Explosives to be as per Explosives Rules, 2008 and all records to be maintained as per the Explosives Rules, 2008. 4. All unused Explosives should be returned to Explosive magazine before Sunset. 5. Transportation of Explosives to be Followed as per Explosives Rules, 2008 and RE6 and RE13 to be maintained as per the Rules. 6. Other Permissions from the State/Central Government Authorities needed to be obtained by the Licensee/Occupier for the Transportation, Usage of Explosives. 7. Licensee/Occupier to be responsible for all activities related to the Blasting, Transportation and any other activities under Explosives Rules, 2008. के संदर्भ में यथा संशोधित कर भेजी जा रही है।

The Licence No.: E/SE/KL/22/391(E144114) is forwarded herewith duly amended in respect of followings :

Usage of Explosives at Granite Building Stone Quarry of the Licensee situated at Re. Survey No.: 66/1, 66/2, 66/3-2, 66/3, 66/3-1, 66/3-4, 66/3-5, 66/3-7, 66/3-3, 66/3-6 & 65/1, Thalanad Village, Meenachil Taluk, Kottayam District, Kerala wide E.C identification No. EC23B001KL160578, dated 03.05.2023, issued by SEIAA, Thiruvanthapuram under the following conditions: 1. Opening of Mines should be intimated to DGMS and Director of Mines & Geology. 2. Blasting Operations should be conducted as per Mines Act & Rules. 3. Usage of Explosives to be as per Explosives Rules, 2008 and all records to be maintained as per the Explosives Rules, 2008. 4. All unused Explosives should be returned to Explosive magazine before Sunset. 5. Transportation of Explosives to be Followed as per Explosives Rules, 2008 and RE6 and RE13 to be maintained as per the Rules. 6. Other Permissions from the State/Central Government Authorities needed to be obtained by the Licensee/Occupier for the Transportation, Usage of Explosives. 7. Licensee/Occupier to be responsible for all activities related to the Blasting, Transportation and any other activities under Explosives Rules, 2008.

किसी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी।

The licence capacity at any one time shall not exceed the kinds and quantities mentioned below :

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	300	Kg.
2	Safety Fuse	6	1	0	1000	Mtrs
3	Electric and/or Ordinary Detonators	6	3	0	4000	Nos.

किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ख) और (ग) के अधीन अनुज्ञप्ति के लिए लागू) : 5 गुना  
Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)] : 5 times as above.

यह अनुज्ञप्ति दिनांक 31 मार्च 2028 तक प्रवृत्त रहेगी।

This Licence shall remain valid till 31st day of March 2028.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पावती दें।

For further revalidation (if required), please follow the procedure under Rule 112 of Explosives Rules, 2008. Receipt of this letter may please be acknowledged.

भवदीय | Your's faithfully

(डा. टी. एल. थनुलिंगम | Dr. T. L. THANULINGAM)

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives

दक्षिणांचल, चेन्नै | South Circle, Chennai

प्रतिलिपि प्रेषित | Copy Forwarded to:

- उप मुख्य विस्फोटक नियंत्रक कोची  
The Dy. Chief Controller of Explosives, Kochi
- District Magistrate, KOTTAYAM, Kerala with reference to his Noc No: DCKTM/7008/2022-H4 Dated: 30/11/2022
- Superintendent of Police, KOTTAYAM, Kerala.

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives  
दक्षिणांचल, चेन्नै | South Circle, Chennai

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क आदि के लिए हमारी वेबसाइट <http://peso.gov.in> देखें।)  
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

# **ANNEXURE 4**

## **Panchayat License**



ലൈസൻസ് നമ്പർ : 11/2023-24

തീയതി : 10/08/2023

തലനാട് ഗ്രാമപഞ്ചായത്തിൽ നിന്നും  
1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും  
അതേ തുടർനുള്ള ചട്ടങ്ങളും അനുസരിച്ച്  
ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരഭങ്ങൾ, മറ്റ് സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന  
ലൈസൻസ്

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	ജി.സതീഷ്,മാനേജിംഗ് പാർട്ണർ,ഡെക്കാൺ റോക്സ്,തലനാട് കൊച്ചു കൊട്ടാരത്തിൽ,തോട്ടമൺ,റാന്നി.പി.ഒ.പത്തനംതിട്ട ജില്ല-689672	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	ഡെക്കാൺ റോക്സ്,തലനാട്	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	പാറ ഖനനം ചെയ്ത് വിൽപന നടത്തുന്നതിന്	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	വാർഡ്-12,തലനാട് വില്ലേജ് ബ്ലോക്ക് 59 ൽ റീ സർവ്വേ നമ്പർ 66/1,66/2,66/3,66/3-1,66/3-2,66/3-3,66/3-4,66/3-5,66/3-6,66/3-7,65/1(വിസ്തീർണ്ണം 3.9736 ഹെക്ടർ)	
ലൈസൻസ് കാലയളവ്	10/08/2023 മുതൽ 31/03/2028 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	25000/- രൂപ	രസീത് നമ്പർ 1230100189 തീയതി 10/08/2023
	തൊഴിൽക്കരം 5000/- രൂപ	രസീത് നമ്പർ 1230100189 തീയതി 10/08/2023
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപ സാക്ഷ്യപത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാനം)	(1) കോട്ടയം ജില്ല ഫയർ ഓഫീസറുടെ 23/06/2023 തീയതിയിലെ ജി-1429/23 നമ്പർ നിരാക്ഷേപ സാക്ഷ്യപത്രം. (2) ഡെപ്യൂട്ടി ചീഫ് കൺട്രോളർ ഓഫ് എക്സ്പ്ലോസീവ്സ്,എറണാകുളം 22/05/23 തീയതിയിൽ നൽകിയതും 31/05/2028 വരെ പ്രാബല്യത്തിൽ ഉള്ളതുമായ എക്സ്പ്ലോസീവ് ലൈസൻസ്. (3) കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡിന്റെ 31/05/2023 തീയതിയിലെ KSPCB/KT/ICO/10028248/2023 നമ്പർ പ്രവർത്തനാനുമതി പത്രം.(30/04/2028 വരെ പ്രാബല്യത്തിലുള്ളത്). (4)കോട്ടയം ജില്ല DISASTER MANAGEMENT AUTHORITY യുടെ 01/02/2023 തീയതിയിലെ DCKTM/8916/2022DM1 നമ്പർ നിരാക്ഷേപ സാക്ഷ്യപത്രം. (5).Mr.Aravindan T,Bunglow No.45,English Mess,Near Mysore Hall,Marikuppam KGF,Bangarapet,Kolar,Karnataka എന്നയാൾ മാനേജിംഗ് പാർട്ണർ,ഡെക്കാൺ റോക്സിന് ജോലിയിൽ പ്രവേശിക്കുന്നതിനായി നൽകിയ അപേക്ഷയും (Shri.T Aravindan,No.3,Old Market Street, Andersonpet,KGF,Dist.Kolar(Karnataka) എന്ന പേരിൽ 07/04/2021 ൽ Director Of Mines Safety ,Bengaluru നൽകിയതും 08/03/2026 വരെ പ്രാബല്യത്തിലുള്ളതുമായ സാക്ഷ്യപത്രം. (6).STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA 03/05/2023 ൽ നൽകിയ ENVIRONMENTAL CLEARANCE NO.86/Q/2023. (7) . G . S A T H E E S H , L A T H A BHAVAN,VALIYAKULAM,CHERUKULANJI.P.O,RANNY,VADASSERIKARA എന്നയാളും SMITHA.S ANAND,KOCHUKOTTARATHIL HOUSE,BLOCK JUNCTION,THOTTAMON,RANNY.P.O എന്നയാളും തമ്മിൽ 17/06/2019 ൽ ഉണ്ടാക്കിയ പങ്കാളിത്ത ഉടമ്പടി. (8).തലനാട് ഗ്രാമപഞ്ചായത്തിൽ നിന്നും 02/07/2019 ൽ നൽകിയ സി4-1153/19 നമ്പർ നിരാക്ഷേപ സാക്ഷ്യപത്രം.	



ലൈസൻസി താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു

1. ENVIRONMENTAL CLEARANCE NO.86/Q/2023 FILE NO.1931/EC3/2022/SEIAA, dtd.03.05.2023 ൽ വിവരിക്കുന്ന നിബന്ധനങ്ങൾ എല്ലാം പാലിക്കപ്പെടേണ്ടതാണ്.
2. മേൽ E C യിൽ പറയുന്ന C E R PLAN പ്രകാരമുള്ള പ്രവർത്തികൾ ആയതിൽ പറയുന്ന തീയതികളിൽ പൂർത്തീകരിക്കണം.
3. മറ്റ് വകുപ്പുകളിൽ നിന്നും അനുവദിച്ചിട്ടുള്ള പെർമിഷൻ, ലൈസൻസ്, മറ്റ് ക്ലിയറൻസുകൾ എന്നിവ അതത് സമയങ്ങളിൽ പുതുക്കേണ്ടതാകുന്നു. അല്ലാത്ത പക്ഷം പഞ്ചായത്ത് അനുവദിച്ചിട്ടുള്ള ലൈസൻസ് സ്വമേധയാ റദ്ദാകുന്നതാണ്. അപേക്ഷയോടൊപ്പം സമർപ്പിച്ചിട്ടുള്ള എല്ലാ നിരാക്ഷേപ പത്രങ്ങളും കാലാവധി തീരുന്ന മുറയ്ക്ക് ലൈസൻസി പുതുക്കി വാങ്ങേണ്ടതും ആയത് രേഖമൂലം ഈ ഓഫീസിൽ സമർപ്പിക്കേണ്ടതുമാണ്.
4. കേരള പഞ്ചായത്ത് രാജ് ആക്ട് അതേ തുടർന്നുള്ള ചട്ടങ്ങളും ബൈലോകളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.
5. തൊഴിൽ സ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്തധികാരികൾക്കോ /സെക്രട്ടറി അധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർ പരിശോധിക്കുന്നതിന് ലൈസൻസ് വേണ്ട സൗകര്യങ്ങൾ നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാകുന്നു.
6. ഏത് സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്ക വിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും ലൈസൻസിന്റെ നമ്പരും ഉദ്ദേശ്യം കാണിക്കുന്ന ഒരു അടയാളപ്പലക വച്ചിരിക്കേണ്ടതാണ്.
7. പഞ്ചായത്തിൽ നിന്നും അനുവാദം ലഭിച്ചശേഷമല്ലാതെ തൊഴിൽ സ്ഥലം മാറ്റാൻ പാടില്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
8. തൊഴിൽ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയായും സാംക്രമിക രോഗാണുക്കൾ ഉണ്ടാകാത്ത വിധത്തിലും പൊതുജനോപദ്രവമാകാത്ത വിധത്തിലും വ്യപാരത്തിനു വച്ചിട്ടുള്ള ഭക്ഷണ പദാർത്ഥങ്ങൾ ഈച്ച അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
9. ഏതൊരു പ്രവർത്തിദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
10. ആ സ്ഥലത്തിന്റെയോ പരിസരത്തിന്റെയോ, ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കുകയോ ചെയ്യുന്ന ചപ്പുചവറോ മൃഗങ്ങളുടെ അവശിഷ്ടങ്ങളോ മറ്റ് പദാർത്ഥമോ ശേഖരിച്ച് സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്യിക്കേണ്ടതാണ്.
11. ലൈസൻസി ഏതൊരു കെട്ടിടത്തിന്റെയും ചുവരുകളുടെ അകവശത്തിന്റെ ഏതൊരു ഭാഗവും മേൽപറഞ്ഞ പരിസരത്തിലുള്ള തറയും നടപ്പാതയും അവിടെ തെരിച്ചുവീഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിന്യമോ, ചപ്പുചവറോ, അസഹ്യവും, ഉപദ്രവകരവുമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ലയിക്കുന്നത് തടയത്തക്കവിധം എപ്പോഴും നന്നായി കേടുപാട് തീർത്ത് നിലനിർത്തേണ്ടതാണ്.
12. ലൈസൻസി മേൽപറഞ്ഞ സ്ഥലത്തോ, പരിസരത്തോ അതോടു ചേർന്നുള്ള ഏതൊരു ഓവുചാലും, അടുക്കളലും കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാട് തീർത്തും വെപ്പിക്കേണ്ടതാണ്.
13. അയിത്തം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതാണ്.
14. നിരോധിത പ്ലാസ്റ്റിക് ഇനങ്ങൾ ഉൽപ്പാദിപ്പിക്കുകയോ ശേഖരിക്കുകയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ പാടില്ല.
15. സ്ഥാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാമം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേണ്ടതാണ്.
16. നിരോധിത ഉൽപ്പന്നങ്ങളായ പാൻമസാല, ഗുഡ്ക തുടങ്ങിയവ സംഭരിച്ചുവയ്ക്കുവാനോ വിൽക്കുവാ പാടില്ല.
17. ബാലവേല അനുവദിക്കുവാൻ പാടില്ല.
18. മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ ലംഘനം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതിന് കാരണമാകാവുന്നതാണ്.
19. പൊതു ഭരണവകുപ്പിന്റെ 13.06.2020 ലെ സ.ഉ. (സാധാ)1877/2017/പൊ.ഭ.വ. ഉത്തരവ് പ്രകാരമുള്ള കോവിഡ് പ്രോട്ടോക്കോൾ
20. തദ്ദേശ സ്വയംഭരണ വകുപ്പിന്റെ 22/07/2017 സ.ഉ.(സാധാ) 2511/2017 ത.സ്വ.ഭ.വ. പ്രകാരമുള്ള ഉറവിട മാലിന്യ സംസ്കരണ സംവിധാനം സ്ഥാപിക്കണം.



  
Sophia Mathew  
Secretary  
Thalanad Gramapanchayat  
Thalanad P.O. Kottayam 686580  
Mob: 9496044681

# **ANNEXURE 5**

**Consent from KSPCB**

**FILE NO : KSPCB/KT/ICO/10028248/2023**

**Date of issue : 31-05-2023**



**KERALA STATE POLLUTION CONTROL BOARD**

**CONSENT TO**

**OPERATE/AUTHORISATION/REGISTRATION**

**ISSUED UNDER**

The Water (Prevention & Control of Pollution) Act, 1974

The Air (Prevention & Control of Pollution) Act, 1981

and

The Environment (Protection) Act, 1986

**As per Application No. : 10028248**

**Dated : 06-05-2023**

**To**

**Deccan Rocks**

**Theekoy P.O, Thalanadu , Kottayam**

**Consent No. : KSPCB/KT/ICO/10028248/2023**

**Valid Upto : 30-04-2028**

## 1. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit

1	<b>VALIDITY</b>	30-04-2028
2	Name and Address of the establishment	Deccan Rocks Theekoy P.O, Thalanadu , Kottayam E-Mail : cleanlineconsultancy@gmail.com Contact Number : 9447256774
3	Occupier Details	G. Satheesh Latha Bhavan, Valiyakulam , Cherukulanji P.O, Pathanamthitta E-Mail : cleanlineconsultancy@gmail.com Contact Number :
4	Local Body	Thalanadu
5	Survey Number	66/1, 66/2, 66/3, 66/3-1, 66/3-2, 66/3-4, 66/3-5, 66/3-7,65/1, 66/3-3, 66/3-6
6	Village	Thalanadu
7	Taluk	Meenachil
8	District	KOTTAYAM
9	Capital Investment(Rs in Lakhs)	303.0
10	Scale	Small
11	Category	RED
12	Annual fee(Rs)	35000.0
	Total Fee remitted(Rs)	1.0
13	Activity	Granite Aggregates- 800 Metric Tonnes/Day
14	Machinery details	Compressor - 2 Nos, Hitachi - 1 Nos, Breaker - 1 Nos

## **2. Conditions as Per The Water(Prevention and Control of Pollution)Act, 1974**

2.1 In case of generation of trade effluent from the industry, effluent treatment system consisting of treatment units having adequate capacity established as per the proposal submitted along with the application shall be made functional before commissioning. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1) (g) of the Water Act shall also be made along with.

2.2 Water Consumption: 10000 LPD

2.3 Effluent Generation: 1000 LPD

2.4 Sewage / waste water with only organic contaminant if any, generated in the unit, shall be discharged through scientifically designed septic tank and soak pit system as per the follows IS code.

i. Septic tank as per IS 2470 (Part 1): 1985.

ii. Soak pit with sealed bottom, honey comb side wall 65 cm thick 2 mm sand all around.

Mode of disposal of treated effluent: Soak pit

2.5 Soak pit shall be at least 10 m away from the water intake well/nearby drinking water wells

## **3. Conditions as Per The Air(Prevention and Control of Pollution)Act, 1981**

3.1 Adequate air pollution control measures shall be provided before commissioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be installed.

3.2 Emission characteristics shall not exceed ambient air quality specified by national air quality standard

3.3 All operations likely to produce dust or noise shall be carried out within sufficiently closed and insulated area

3.4 The PM<sub>10</sub> in ambient air at the boundary shall not exceed 100 microgram / m<sup>3</sup>

3.5 The PM<sub>2.5</sub> in ambient air at the boundary shall not exceed 60 microgram/m<sup>3</sup>

3.6 There shall not be any fugitive emission from the premises

3.7 The D. G. sets shall be provided with a minimum chimney height  $0.2\sqrt{\text{KVA}}$  meters above roof level of the highest nearby building (Where KVA is the capacities of all DG sets). The D. G. sets shall be placed at a minimum distance of  $\sqrt{\text{KVA}/2}$  meters from the neighbouring residences / worship places / institutions (where KVA is the capacity of DG sets).

## **4. Conditions as Per The Environment (Protection) Act, 1986.**

4.1 The construction activities shall be carried out strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000. The sound level measured 1 m outside the boundary of the unit shall not exceed the National ambient noise standards applicable to adjoining area.

4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001

4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. NA

4.4 e-waste shall be disposed of safely as per the E-Waste (Management) Rules, 2016.

4.5 Proper Solid waste management system shall be provided in the unit, arrangements for collection, segregation, storage, handling and disposal of solid Waste including garbage shall be provided as per SWM Rules 2016 and the facility shall be maintained properly.

## **5. GENERAL CONDITIONS**

5.1 This consent is granted subject to the power of the Board to review and make variations in all or any of the conditions as per section 21(6) of the Air (Prevention & Control) of Pollution Act 1981 & section 27 of the Water (Prevention & Control) of Pollution Act 1974.

5.2 Green belt of sufficient height shall be provided with fast growing species such as bamboos for preventing dust and noise pollution.

5.3 For renewal of the consent in case of continuance of operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board for renewing the Consent on or before two months in advance to expiry date. Late application will be accepted with 10% (for application before expiry date) & 50% of yearly fee as late fee for application after due date.

5.4. The occupier shall comply with all the environmental rules and the related act stipulated by the government, relevant instructions issued by the Board in time to time for the prevention and control of pollution and protection of environment.

5.5 No change or alteration of the unit or equipment capacity shall be made without the prior permission of the Board. Any change in the particulars furnished in the references or in the identity of the occupier / authorised agent is to be intimated to the Board forthwith.

5.6 Adequate green cover and green belt shall be provided in the unit with continual improvement of number of trees and vegetation in and around the campus. Nonconventional energy sources (solar, wind, biogas, etc) shall be utilized to the maximum extent to meet the energy need.

5.7 Location of the unit shall be as shown in the drawing attached. No change or alteration to the above shall be made without obtaining prior permission from the board.

5.8 Maintain hygienic condition and good housekeeping practices shall be maintained in and around the unit.

5.9 Set back as per rules shall be provided between the boundary and the building.

5.10 This consent is granted based on the particulars and affidavit submitted by the Entrepreneur and any violation/non-compliance/submission of false information will lead to cancellation of consent and stringent action against the applicant and occupier. In the case of noncompliance of integrated consent

conditions, the consent issued will be withdraw/cancelled, and fee will be lapsed automatically.

5.11 The consented shall put up a sign board of size 6x4 ft. near the main entrance of the plant to display the name of the unit and important consent conditions.

5.12 The occupier shall comply with all the environmental rules and the related act stipulated by the government, relevant instructions Board may issue from time to time for the prevention and control of pollution and protection of environment.

5.13 Arrangements of rain water harvesting including open pond/ well / Bore well/ Ground water recharging shall be provided. Rain water harvesting facility shall be installed in the unit within three month and photos of the same shall be submitted in this office via e-mail: [onlinepcbktm@gmail.com](mailto:onlinepcbktm@gmail.com).

5.14 Any change in the unit and machinery/particulars furnished in the application/ attachments /or in the identity of the occupier/authorized agent is made, then the same shall be intimated to the Board and consent variation shall be obtained.

5.15 Maintain hygienic condition and good housekeeping practises shall be maintained in and around the unit.

5.16 Compound wall of sufficient height shall be provided for preventing noise pollution.

## **6. SPECIFIC CONDITIONS**

6.1 “The consent issued from the Board will be valid only for a period during the period when all other statutory or necessary clearances from other concerned authorities are valid. The consent issued from the Board is only with respect to the powers vested under the Water Act, 1974, Air Act 1981 and Rules there under. The operation of the unit shall be commenced only after obtaining clearances from all concerned authorities”.

6.2 All the Conditions given in the Environmental clearance shall be strictly complied with, A copy of compliance report shall be submitted to the district office in regular interval specified in the EC.

6.3 Mining shall be only done as per the approved mining plan and approval of district geologist.

6.4 Annual environmental statement shall be submitted on or before 31 st March every year.

6.5 Regular wetting of the road in the premises of the unit quarry and approach roads near the quarry shall be done for avoiding excessive dust emission within and outside the boundary.

6.6 There shall not carry out any mining activity between 6.00 pm to 6.00 am.

6.7 There shall be a minimum distance of 50m from boundary of quarry operating area to residential building, place of worship, public buildings, public road having vehicular traffic, river or lake, railway line, bridges etc as per PCB/HO/CIRCULAR-01/03/2017, dated 10/10/2017.

6.8 Boundary shall be fenced before operation of quarrying activities.

6.9 Suitable species of trees and curtain plants shall be planted and maintained within and along the

periphery of the premises, forming a green belt to improve the environment. And reduce air and noise pollution.

6.10 Bench cutting method shall be adopted for quarrying. Blasting shall be done with electronic detonators and prior signals in specified time.

6.11 Quarrying operations shall be started only after obtaining Mining permit/lease from Mining and geology Department and D & O License under the Kerala Panchayat Raj Act from the concerned Local Self Government.

6.12 Adequate safety measures shall be provided in accordance with the fire & safety regulations.

6.13 After completion of mining, the mining area shall be reclaimed as per approved mine closure plan.

6.14 Mining below normal water table by continuous pumping shall be avoided in summer period (March, April & May) to prevent drinking water shortage in that area.

6.15 No other machineries, other than that specified in the consent shall be operated in the quarry without prior Consent of the Board.

Digitally signed by Biju B  
Date: 2023.05.31 18:19:07 IST

SIGNATURE OF ISSUING AUTHORITY

ENVIRONMENTAL ENGINEER



B5-7773/19

DISTRICT : KOTTAYAM  
TALUK : MEENACHIL  
VILLAGE : THALANAD

SURVEY MAP

SURVEY NO : 65/1,66/1,66/2,66/3.  
BLOCK NO : 59  
LEASE AREA : 3.9736 HA

APPLICANT:- MANAGING PARTNER  
DECCAN ROCKS  
THEEKROY P.O.  
NJANDUKALLU  
ERATTUPETTA,  
KOTTAYAM



Verified by  
LJO ROY  
Assistant Engineer  
District Office Kottayam

MINED AREA : 3.3090 HA  
PROPOSED LEASE AREA : 3.9736 HA

LEGEND

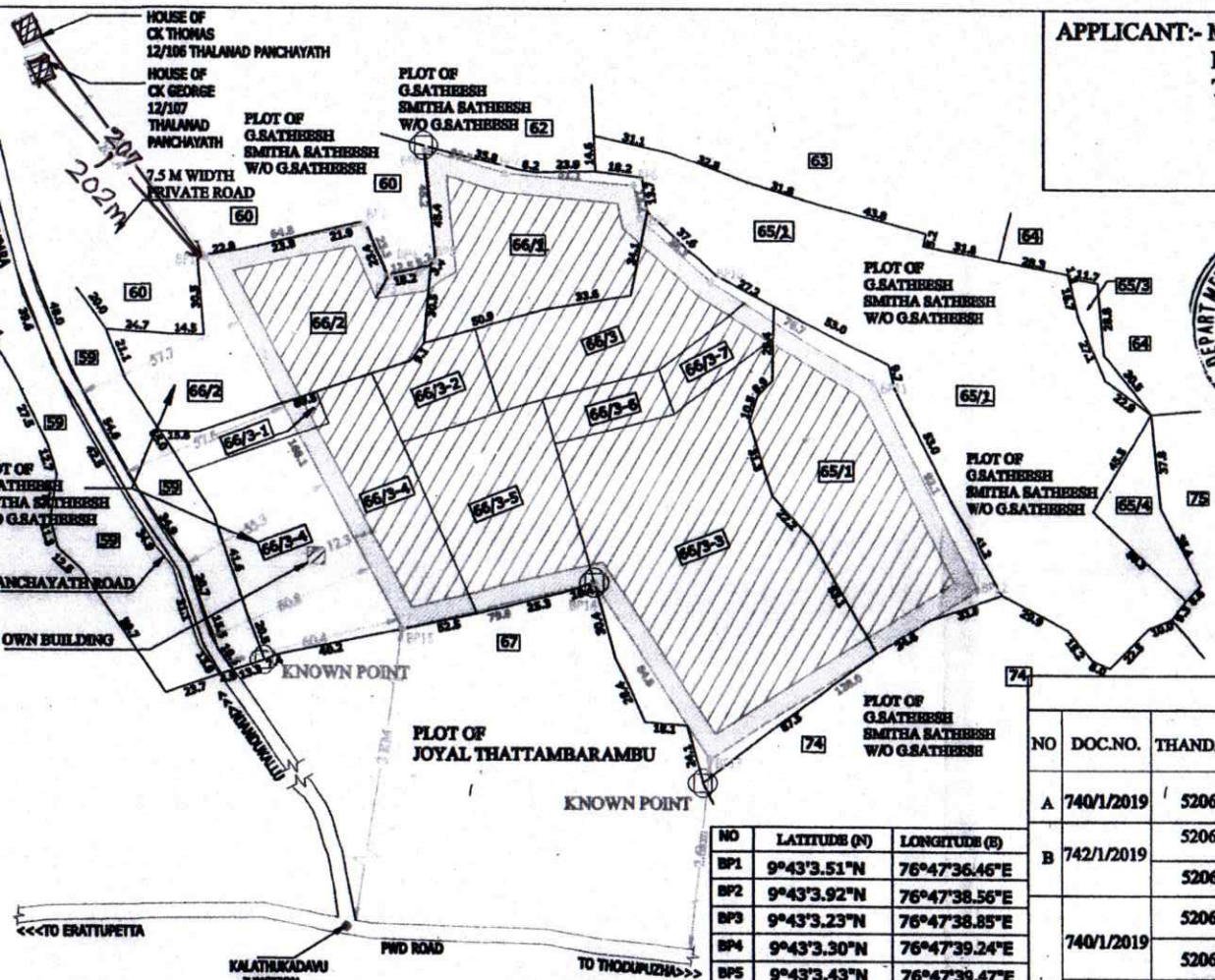
	PROPOSED LEASE AREA INCLUDING BUFFER
	SURVEY LINE
	PILLER
	SUB DIVISION LINE
	ROCK MARK
	HOUSE / BUILDING
	PRIVATE ROAD
	PANCHAYATH ROAD
	PWD ROAD

SCALE : 1 CM = 20 M



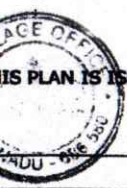
PROPERTY DETAILS

NO	DOC.NO.	THANDAPER	BLOCK NO	RE SY.No	IN POSSSION	BUFFER AREA	MINED AREA	PROPOSED LEASE AREA	NAME OF OWNER
A	740/1/2019	5206	59	66/2	0.6480 Ha	0.1213 Ha	0.2828 Ha	0.4041 Ha	1- G.SATHERESH S/O GANGADHERAN
B	742/1/2019	5206	59	66/1	0.5030 Ha	0.1082 Ha	0.3609 Ha	0.4691 Ha	
		5206	59	66/3-2	0.1416 Ha	—	0.1416 Ha	0.1416 Ha	
		5206	59	66/3	0.3480 Ha	0.0366 Ha	0.3114 Ha	0.3480 Ha	
C	740/1/2019	5206	59	66/3-1	0.0886 Ha	0.0102 Ha	0.0078 Ha	0.0180 Ha	2-SMITHA SATHERESH W/O G.SATHERESH
		5206	59	66/3-4	0.7507 Ha	0.0838 Ha	0.2430 Ha	0.3268 Ha	
		5206	59	66/3-5	0.4027 Ha	0.0367 Ha	0.3660 Ha	0.4027 Ha	
	741/1/2019	5206	59	66/3-7	0.0885 Ha	0.0130 Ha	0.0755 Ha	0.0885 Ha	G.SATHERESH S/O GANGADHARAN
		5199	59	66/3-3	1.1534 Ha	0.1224 Ha	0.9673 Ha	1.0897 Ha	
		5199	59	66/3-6	0.0885 Ha	—	0.0885 Ha	0.0885 Ha	
D	652/1/2019	5199	59	65/1	0.6920 Ha	0.1324 Ha	0.4642 Ha	0.5966 Ha	
TOTAL AREA:-					4.9050 Ha	0.6646 Ha	3.3090 Ha	3.9736 Ha	



COUNTER SIGNED  
TAHSILDAR MEENACHIL

27/8/19  
Village Officer,  
Thalanadu P.O.  
PIN - 686 580



# **ANNEXURE 6**

## **Non-Objection Certificate**



**DISTRICT LEVEL CRISIS  
MANAGEMENT GROUP KOTTAYAM**  
(Constituted vide GO (Rt)  
No.542/14/D dated 26.05.20214 of  
Industries (A) Department

**District Disaster Management  
Authority, Collectorate P O  
Kottayam**  
Phone 0481 2562201  
[email.collectoratem@ker.nic.in](mailto:email.collectoratem@ker.nic.in)  
[dmdktm3@gmail.com](mailto:dmdktm3@gmail.com)

## No Objection Certificate (NOC) for initiating Quarrying operation in Orange Zone

**No.DCKTM/8916/2022-DM1**

**Date: 01.02.2023**

Name Of The Applicant	G, Satheesh
Address of the Applicant	Managing Partner, M/s Deccan Rocks Theekoy P.O, Thalanadu, Meenachil Taluk, Kottayam District
Address of Communication	M/s Deccan Rocks Theekoy P.O, Thalanadu, Meenachil Taluk, Kottayam District

### Details of the property

Taluk	Village	Block	Re-survey No	Total Extent	Extent covered in this NOC
Meenachil	Thalanad	059	66/1,66/2,66 /3,66/3- 1,66/3- 2,66/3- 4,65/1,66/3- 3,66/3- 6,66/3- 7,66/3-5	<b>04.4138 Hectare</b>	<b>03.9736 Hectare</b>
Nature of the Possession by the Applicant			Patta		

### In The case of Leased Property

Name of the Patta Holder	Address of the Patta Holder	Lease deed valid upto
N A	N A	N A
Date of Application	06.10.2022	
Date of DLCMG Meeting	20.01.2023	



Minutes Approved on	20.01.2023
NOC issued on	01.02.2023
<b>Remarks</b>	
1. This NOC does not constitute a mining or quarrying permit under the MMDR Act. The applicant must obtain all necessary permissions /licenses from the appropriate authorities before engaging in mining or quarrying activities.	
2. This NOC is valid until the DLCMG suspends, withdraws or cancels it.	

  
**District Collector & Chairman**  
**District Level Crisis Management Group**  
**Kottayam**



# **ANNEXURE 7**

## **Environmental Monitoring Results**

## TEST REPORT

**ULR No: TC1293924000024262F**

LRI No.: SEAAL24112030A

Date: 26-11-2024

Page 1 of 1

### CUSTOMER DETAILS

Customer Name & Address	<b>Mr.G. Satheesh</b> Managing Partner, M/s Deccan Rocks, Theekoy P.O, Thalanadu, Kottayam District.
Customer Reference	Test Request date: 19-11-2024

### SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN24110906
Sample Name	Ambient Air	Sample Received on	20-11-2024
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	21-11-2024
Sampled by	Lab Authorized Sampler	Test Completed on	25-11-2024

### DETAILS OF SAMPLING

Sampling Location	Project Site	Date of Sampling	19-11-2024
Sampling Procedure	SEAAL/CHL/SOP/7.3/02	Humidity	70 %

### INFORMATION PROVIDED BY CUSTOMER-SAMPLING SITE DETAILS


Project Name	Deccan Rocks		
Survey No.	66/2, 66/1, 66/3- 2, 66/3, 66/3-1, 66/3-4, 66/3-5, 66/3-7, 66/3-3, 66/3-6, 65/1		
Village	Thalanad	Taluk	Meenachil
District	Kottayam	State	Kerala


### TEST RESULTS-CHEMICAL DISCIPLINE

SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate matter ,PM <sub>10</sub>	IS 5182 (Part 23): 2006	µg/m <sup>3</sup>	51.4	100 (Max)
2	Particulate matter ,PM <sub>2.5</sub>	IS 5182 (Part 24): 2019	µg/m <sup>3</sup>	28.2	60 (Max)
3	Sulphur dioxide as SO <sub>2</sub>	IS 5182 (Part 2): 2001	µg/m <sup>3</sup>	<4.00	80 (Max)
4	Nitrogendioxide as NO <sub>2</sub>	IS 5182 (Part 6): 2006	µg/m <sup>3</sup>	<4.00	80 (Max)

Remarks:

\*\*\*End of Report\*\*\*

  
**Shency Joy**  
**TM - Chemical**  
 Checked by

  
**Laiju P.N.**  
**Laboratory Head**  
 Authorized Signatory

The results are related to the samples tested; This test report shall not be reproduced except in full, without the written approval of the laboratory, Unless requested by the customer; the samples will not be retained for more than 7 days from the date of report.

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Approval &amp; Recognition: MoEF recognized Environmental Laboratory; "A" Grade Laboratory approved by KSPCB.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110.

Tel. 0484-2546660. 93872 72402. 90743 41443. Web: www.standardslab.in. E-mail: seaalab@gmail.com



## TEST REPORT

**ULR No: TC1293924000024263F**

LRI No.: SEAAL24112031A	Date: 26-11-2024	Page 1 of 1
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### CUSTOMER DETAILS

Customer Name & Address	<b>Mr.G. Satheesh</b> Managing Partner, M/s Deccan Rocks, Theekoy P.O, Thalanadu, Kottayam District.
Customer Reference	Test Request date: 19-11-2024

### DETAILS OF MONITORING

Product Category	Atmospheric Pollution	Sample Code	EN24110907
Sample Name	Ambient Noise	Monitoring Commenced on	19-11-2024
Test Method	IS 9989:1981	Monitoring Completed on	20-11-2024
Monitoring Location	Project Site	Monitored by	Lab Authorized Sampler

### SAMPLING SITE DETAILS

SARVANGA SITE DETAILS			
Project Name	Deccan Rocks		
Survey No.	66/2, 66/1, 66/3- 2, 66/3, 66/3-1, 66/3-4, 66/3-5, 66/3-7, 66/3-3, 66/3-6, 65/1		
Village	Thalanad	Taluk	Meenachil
District	Kottayam	State	Kerala


### MONITORING RESULTS - Leq

TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	39.7	14:00	53.2	22:00	38.4
07:00	42.5	15:00	53.6	23:00	37.2
08:00	47.0	16:00	54.8	24:00	39.8
09:00	50.7	17:00	55.2	01:00	40.6
10:00	53.2	18:00	49.5	02:00	40.2
11:00	56.4	19:00	45.8	03:00	41.0
12:00	53.6	20:00	41.7	04:00	39.8
13:00	52.8	21:00	41.2	05:00	41.7


Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time	dB(A)	51.7
2	Ambient Sound Level (Leq) Night Time	dB(A)	40.2

Remarks:

\*\*\*End of Report\*\*\*

  
**Shency Joy**  
**TM - Chemical**  
 Checked by



  
**Laiju P.N.**  
**Laboratory Head**  
 Authorized Signatory

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 Tel. 0484-2546660. 93872 72402. 90743 41443. Web: www.standardslab.in. E-mail: seallab@gmail.com

## TEST REPORT

**ULR No:TC1293924000024264F**

LRI No.:SEAAL24112032A

Date: 26-11-2024

Page 1 of 2

### CUSTOMER DETAILS

Customer Name & Address	<b>Mr.G. Satheesh</b> Managing Partner, M/s Deccan Rocks, Theekoy P.O, Thalanadu, Kottayam District.
Customer Reference	Test Request Date: 19-11-2024

### SAMPLE DETAILS

Product Category	Water	Sample Code	WT24110511
Sample Name	Ground Water	Sample Received on	20-11-2024
Sample Description by Customer	Open Well Water	Temperature @ Receipt	4°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	21-11-2024
Sample Quantity& Packing	2 L & 125 ml in a Plastic Bottle	Test Completed on	25-11-2024
Information Provided by Customer	---	Sampled by	Lab Authorized Sampler

### DETAILS OF SAMPLING


Sample Source	Project site	Date of Sampling	19-11-2024
Sampling Procedure	SEAAL/QAD/SOP/7.3/01	Sample Temperature	27°C


### INFORMATION PROVIDED BY CUSTOMER-SAMPLING SITE DETAILS


Project Name	Deccan Rocks		
Survey No.	66/2, 66/1, 66/3- 2, 66/3, 66/3-1, 66/3-4, 66/3-5, 66/3-7, 66/3-3, 66/3-6, 65/1		
Village	Thalanad	Taluk	Meenachil
District	Kottayam	State	Kerala

### TEST RESULTS- CHEMICAL DISCIPLINE

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Colour	IS 3025 (Part 4): 2021	Hazen	1	5 (Max)
2	Odour	IS 3025 (Part 5): 2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10): 2023	NTU	<0.10	1 (Max)
4	pH	IS 3025 (Part 11): 2022	---	6.62	6.50-8.50
5	Conductivity	IS 3025 (Part 14): 2013	µS/cm	104	---

  
**Shency Joy**  
**TM - Chemical**  
 Checked by

  
**Remya B.**  
**TM-Biological**  
 Authorized Signatory

  
**Laiju P.N.**  
**Laboratory Head**  
 Authorized Signatory

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Tel. 0484-2546660. 93872 72402. 90743 41443. Web: www.standardslab.in. E-mail: seaalab@gmail.com

## TEST REPORT

**ULR No:TC1293924000024264F**

LRI No.:SEAAL24112032A

Date: 26-11-2024

Page 2 of 2

### TEST RESULTS- CHEMICAL DISCIPLINE

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
6	Total Dissolved Solids	IS 3025 (Part 16): 2023	mg/L	67.0	500 (Max)
7	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21): 2009	mg/L	26.0	200 (Max)
8	Calcium as Ca	IS 3025 (Part 40): 1991	mg/L	7.20	75 (Max)
9	Magnesium as Mg	IS 3025 (Part 46): 2023	mg/L	1.95	30 (Max)
10	Chloride as Cl	IS 3025 (Part 32): 1988	mg/L	13.3	250 (Max)
11	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 2023	mg/L	29.3	200 (Max)
12	Iron as Fe	IS 3025 (Part 53): 2003	mg/L	<0.10	1 (Max)
13	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24/Sec 1): 2022	mg/L	<1.00	200 (Max)

### TEST RESULTS - BIOLOGICALDISCIPLINE

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Total Coliform Bacteria	IS 15185: 2016	----	Absent/100 ml	Absent/100 ml
2	<i>E.coli</i>	IS 15185: 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

\*\*\*End of Report\*\*\*


**Shency Joy**  
**TM - Chemical**  
 Checked by


**Remya B.**  
**TM-Biological**  
 Authorized Signatory


**Laiju P.N.**  
**Laboratory Head**  
 Authorized Signatory

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